AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A method comprising:

receiving one or more lists of available resources from one or more computer devices;

receiving, from an application process, a document specifying a communication protocol and a communication channel;

reading the document;

accessing properties information reflecting addresses of the computer devices;

determining whether the communication channel requires communication with at least one of the computer devices;

instantiating, based on the list of available resources for the required computer devices, the communication channel with the application process using the communication protocol; and

sending communications to communicating with the application process using the communication protocol through the communication channel; and

receiving communications from the application process using the communication protocol through the communication channel.

 (Original) The method of claim 1 further comprising: sending a request for data describing the application process and its requirements; and

receiving data describing the application process and its requirements.

- 3. (Original) The method of claim 2 wherein the data comprises process identification or degree of consumption of a resource by the application process.
- 4. (Original) The method of claim 3 wherein the data further comprises a definition of the resource.
- 5. (Original) The method of claim 3 wherein the resource comprises one or more of a central processing unit, memory, socket bindings, memory storage space, and communication bandwidth.
- 6. (Currently Amended) The method of claim 1 wherein <u>communicating</u> sending communications comprises sending a command to the application process to perform an action.
- 7. (Original) The method of claim 6 wherein the action is one of start, stop, wait, resume, and change priority.
- 8. (Original) The method of claim 1 wherein the document further specifies one or more commands that the application process is capable of receiving and executing.

9. (Withdrawn) A system comprising:

a computer system with a processor and a memory;

a service handling at least locating, reserving, allocating, monitoring, and deallocating one or more computational resources on the computer system for an application program, the service configured to read a document specifying how to interface with the application program; and

the application program configured to execute on the computer system as an application process managed by the service.

- 10. (Withdrawn) The system of claim 9 wherein the service is further configured to instantiate a communications channel with the application program.
- 11. (Withdrawn) The system of claim 9 wherein interfacing with the application program comprises sending a request for data describing the application process and receiving data describing the application process.
- 12. (Withdrawn) The system of claim 11 wherein the data comprises process identification or degree of consumption of a resource by the application process.
- 13. (Withdrawn) The system of claim 12 wherein the data further comprises a definition of the resource.

- 14. (Withdrawn) The system of claim 12 wherein the resource comprises one or more of the processor, the memory, socket bindings, memory storage space, and communication bandwidth.
- 15. (Withdrawn) The system of claim 9 wherein specifying how to interface comprises sending a command to the application process to perform an action.
- 16. (Withdrawn) The system of claim 15 wherein the action is one of start, stop, wait, resume, and change priority.
- 17. (Withdrawn) The system of claim 9 wherein the document further specifies one or more commands that the application process is capable of receiving.
- 18. (Withdrawn) The system of claim 9 further comprising a second application program configured to execute on the computer system as a process managed by the grid manager, wherein the second service is configured to read a second document specifying how to interface with the second application program.
- 19. (Currently Amended) A computer-readable medium that stores a set of instructions which, when executed, performs a method comprising:

receiving one or more lists of available resources from one or more computer devices;

receiving, from an application process, a document specifying a communication protocol and a communication channel;

reading the document;

accessing properties information reflecting addresses of <u>the</u> computer devices; determining whether the communication channel requires communication with at least one of the computer devices;

instantiating, based on the list of available resources for the required computer devices, the communication channel with the application process using the communication protocol; and

sending communications to communicating with the application process using the communication protocol through the communication channel; and

receiving communications from the application process using the communication protocol through the communication channel.

20. (Previously Presented) The computer-readable medium of claim 19, wherein the method further comprises:

sending a request for data describing the application process and its requirements; and

receiving data describing the application process and its requirements.

- 21. (Currently Amended) A system, comprising:
- a memory; and
- a processor, wherein the processor and the memory:

receive one or more lists of available resources from one or more

computer devices;

receive, from an application process, a document specifying a communication protocol and a communication channel;

read the document:

access properties information reflecting addresses of <u>the</u> computer devices;

determine whether the communication channel requires communication with at least one of the computer devices;

instantiate, based on the list of available resources for the required computer devices, the communication channel with the application process using the communication protocol; and

send communications to communicate with the application process using the communication protocol through the communication channel; and

receive communications from the application process using the communication protocol through the communication channel.

22. (Previously Presented) The system of claim 21, wherein the processor and the memory:

send a request for data describing the application process and its requirements; and

receive data describing the application process and its requirements.